MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2016/2017

BWP2024 – INTERNET AND WORLD WIDE WEB PROGRAMMING

(All sections / Groups)

7 MARCH 2017
2:30 P.M. – 4:30 P.M.
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This Question paper consists of 7 pages with 6 Questions only.

2. Attempt **ANY THREE** questions in **SECTION A** and answer **ALL** questions in **SECTION B**. The distribution of the marks for each question is given.

3. Please write all your answers in the Answer Booklet provided.

SECTION A: Essay Questions (60 Marks)
Answer any THREE (3) questions only.

QUESTION 1

a) Differentiate between client-side scripting and server-side scripting.

(12 marks)

b) A variable is a location in the computer's memory where a value can be stored for use by a script. Give **FOUR (4)** advices on assigning or choosing a variable name.

(8 marks)

(Total: 20 marks)

QUESTION 2

a) Programmers, developers and Internet users have always been confused between Java and JavaScript. In order to clear the confusion, differentiate between Java and JavaScript.

(10 marks)

b) Explain how escape sequence can be formed. Give and describe **FOUR (4)** escape sequences.

(10 marks)

(Total: 20 marks)

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QUESTION 3

a) Web 2.0 delivers benefits by multiplying the opportunities for collaboration and by allowing knowledge to spread more effectively. Give and describe **THREE (3)** business models that can be implemented by using Web 2.0.

(9 marks)

b) The CSS3 text-shadow property makes it easy to add a text shadow effect to any text. List and describe the **FOUR (4)** values of the text-shadow property.

(11 marks)

(Total: 20 marks)

QUESTION 4

a) Discuss what collaborative filtering is and why it is important for a Web 2.0 site. Give **TWO (2)** Web 2.0 sites with collaborative filtering as examples.

(6 marks)

b) Based on the Table 1 and Table 2 below, create an SQL query that retrieve records from Customer and Order tables to obtain the customer(s) from NSW with order value higher than 2500. The outcome of the query must show each *customer's ID*, *name*, *city*, *order number* and the *order value*.

Table 1. Customer Table

CustomerID	Customer Name	Contact Num	Address	City	PostalCode	Country
1	Peter	1-541-754-3010	421 E Drachman Tucson	AZ	85705	USA
2	Kobe	2-014-555-0162	SUITE 5A-1204 799 E Dragram Tucson	AZ	85705	USA
3	Amare	2-223-324-6312	100Main St PO Box 1022 Seattle	WA	98104	USA
4	Isabella	(02) 9288 3000	GPO Box 4242 Sydney	NSW	2001	AUS
5	Paulin	(02) 3388 3111	2 Holt Street Surry Hills	NSW	2010	AUS

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Table 2. Order Table

OrderNum	CustomerID	OrderQty	Value
1	2	13	1500
2	2	50	4000
3	3	22	2500
4	3	30	2800
5	4	25	3000
6	5	24	2500
7	5	25	3100

(14 marks)

(Total: 20 marks)

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SECTION B: Practical Questions (40 Marks)
Answer ALL questions.

QUESTION 5

Write a JavaScript to get and render the current day, date and time on a Webpage. Sample screen shot of the webpage is shown below:

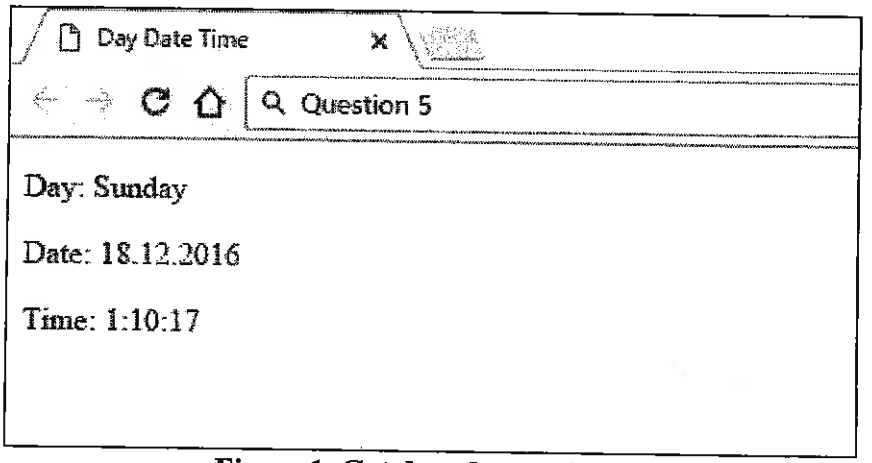

Figure 1. Get day, date and time

Requirement:
Assign the labels of days (e.g. Monday, Tuesday, Wednesday, etc.) by using switch statement.

(20 marks)

(Total: 20 marks)

Continued.....

QUESTION 6

Write a JavaScript to develop an online quiz on a Webpage. Show the instruction to the user on how to answer the quiz when he or she visits your Webpage. The quiz consists of **FOUR (4)** questions only. The instruction and the questions must be delivered to the user using dialog box (Figure 2 to 6). After the user completed the quiz, the result will be displayed to the user on the Webpage (Figure 7a, 7b and 7c). Sample screen shots of the webpage are shown below:

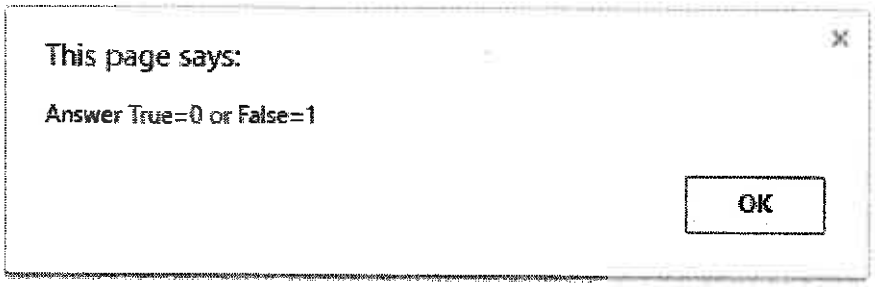

Figure 2. Instruction

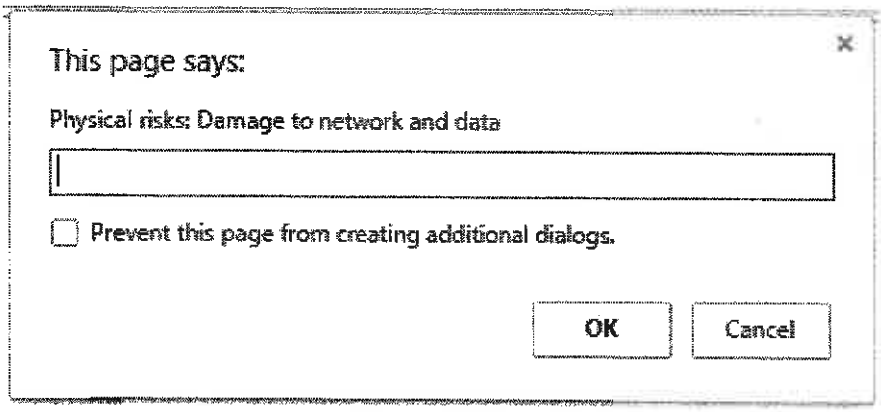

Figure 3. Question 1

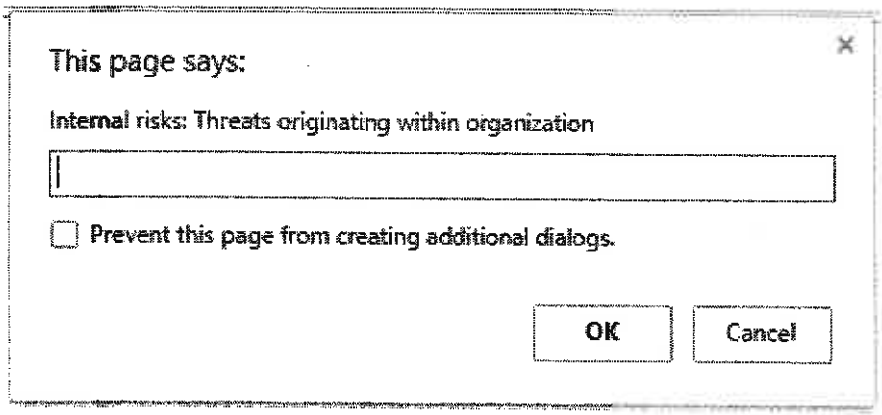

Figure 4. Question 2

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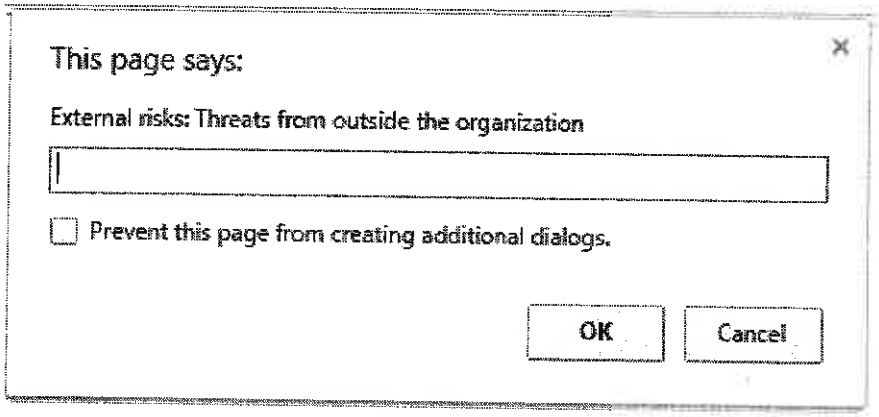

Figure 5. Question 3

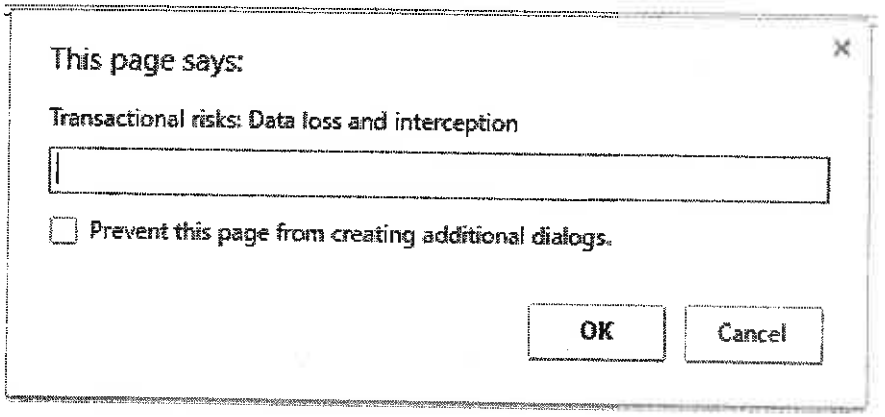

Figure 6. Question 4

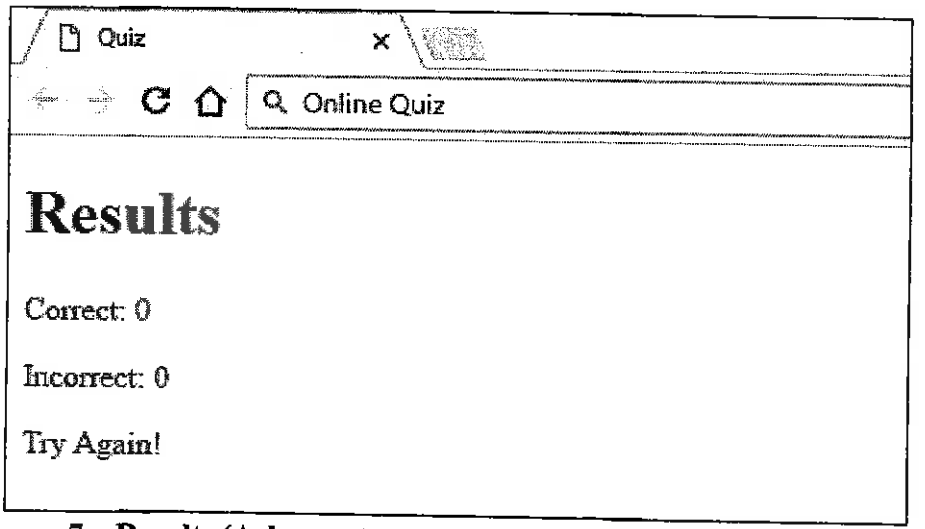

Figure 7a. Results (Ask user to try again if no answer has been received)

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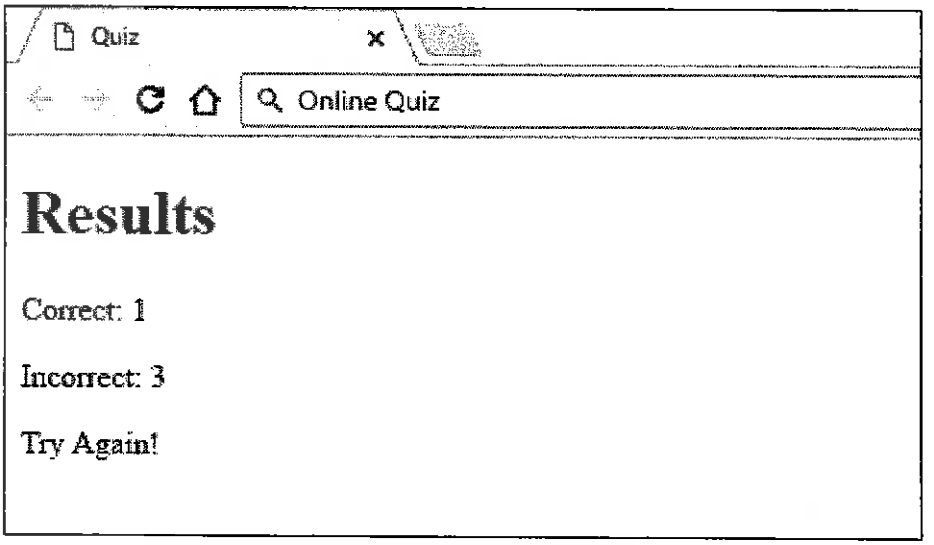

Figure 7b. Results (Ask user to try again if he or she didn't get them all correct)

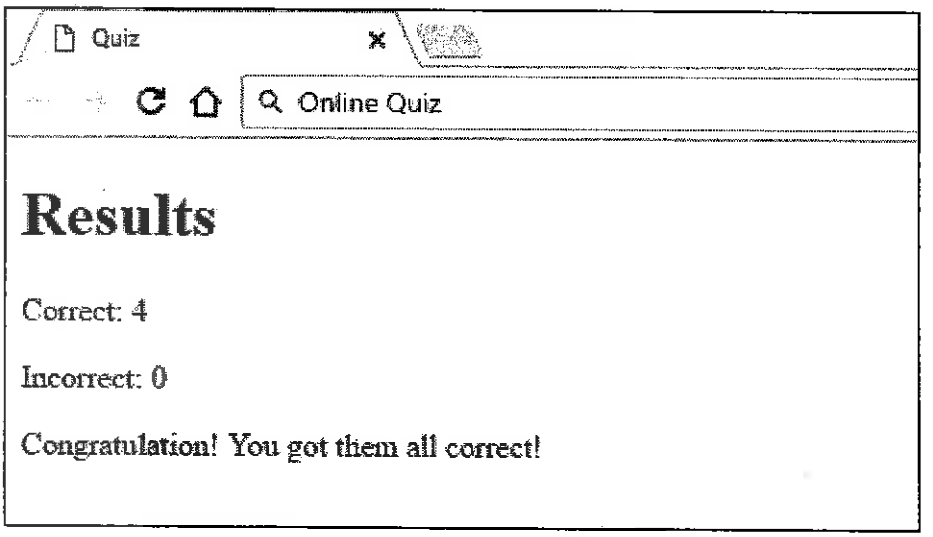

Figure 7c. Results (Congratulate user if he or she got them all correct)

(20 marks)

(Total: 20 marks)

End of Page